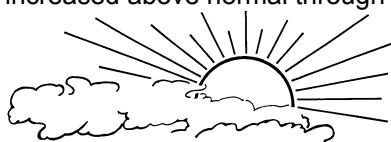


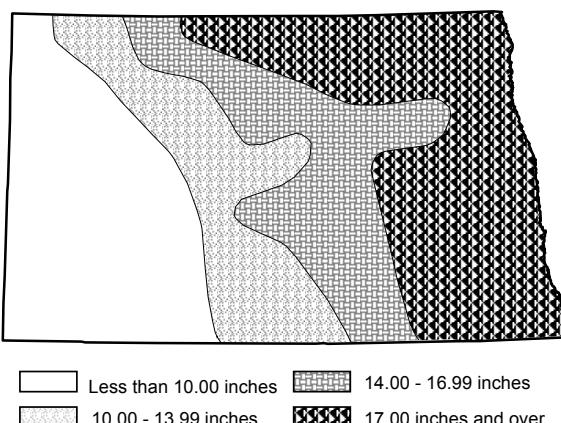
## Crop & Weather Data, 2004

### Growing Season Highlights

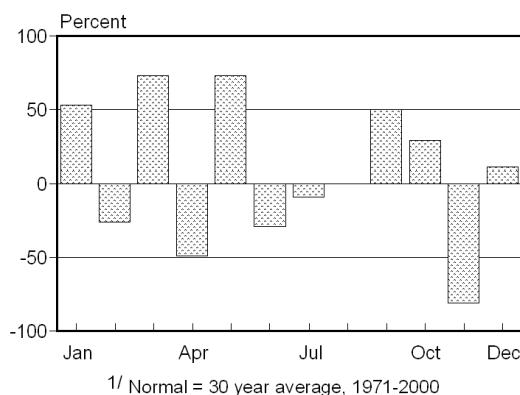
- ◆ Spring tillage and planting for 2004 was generally ahead of both last year and the five-year average (1999-2003). Warm, dry April weather encouraged an average starting date for fieldwork of April 14.
- ◆ Planting and emergence for most crops stayed ahead of the average until late in May. Heavy rains and cool temperatures throughout the northern and eastern areas in late May slowed planting progress. Freezing temperatures damaged some emerged crops in mid-May.
- ◆ Crop conditions during June were rated below the five-year average. Small grain conditions improved to near average during July while late season crops remained below average. Widespread frost was reported over much of the state during the week ending August 22. Small grain harvest conditions remained cool and damp most of August, September and October. Durum wheat harvest continued until early November and finished four weeks behind normal.
- ◆ A killing frost blanketed the state during the first weekend of October and halted late season crop development. Fall rains and crop maturity issues also slowed late season crop harvest. Corn and sunflower harvest continued into December after wet soils froze.
- ◆ The northern, central and eastern areas experienced wet soil conditions throughout much of the season, while the southwest was very dry. Topsoil moisture supplies were below average in April and May, followed by a near average pattern from June through August and then increased above normal through the fall.



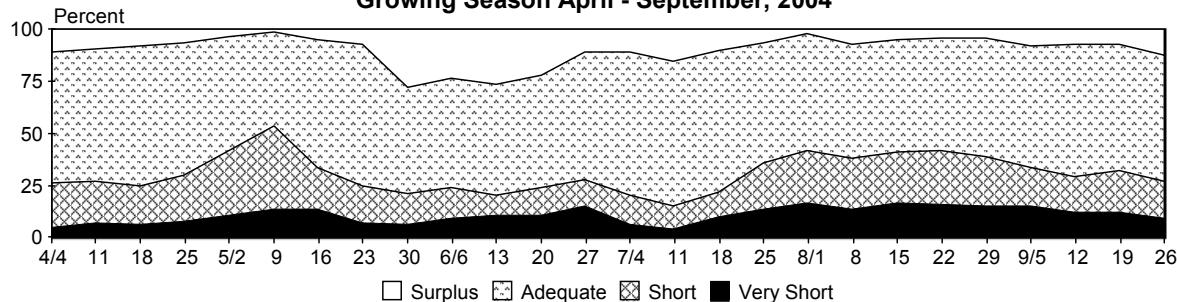
**Growing Season Precipitation**  
April-September, 2004



**Monthly Precipitation**  
Departure From Normal<sup>1/</sup>, 2004



**Topsoil Moisture Supplies**  
Growing Season April - September, 2004



## Monthly Precipitation: North Dakota, 2004

Districts and Stations	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
<b>Crosby</b> <b>Fortuna 1 W</b> <b>Kenmare 1 WSW</b> <b>Minot Exp Station</b> <b>Mohall</b> <b>Powers Lake 1 N</b> <b>Stanley 3 NW</b> <b>Wildrose 3 NW</b> <b>Williston Exp Farm</b> <b>NORTHWEST</b>	1.40*	0.32	0.45	0.68	4.89	2.94	3.52	1.90	0.55	0.93	0.14	0.95*	18.67*
	1.00	0.10*	0.90	0.32*	5.33	2.00*	1.44	0.49*	0.25*	M	0.05	0.78*	M
	1.86*	0.28*	0.49*	0.63*	5.11	5.47	3.69	2.94	1.64	1.21*	0.18*	0.58*	24.08*
	1.60	0.34	0.72	0.38*	3.20	3.55	1.99	2.27	1.00	1.67	0.27	0.73	17.72*
	M	0.13*	0.45	0.55*	4.17*	4.61	3.31	3.26	1.42	1.15	0.00*	0.42*	M
	0.95*	0.27	M	0.60*	3.37*	4.29	3.13	1.63	1.08	1.39	0.13	0.36*	M
	0.95	0.42	0.75	0.38	3.54	3.37	1.95	2.88	1.56	1.77	0.29	0.63	18.49
	1.00	0.52	0.47	0.49	3.50	3.20	2.27	0.95	0.61	1.43	0.16	0.95	15.55
	0.78	0.10	0.07*	0.44	3.24	1.66	2.27	1.43	0.87	1.05	0.12	0.43	12.46*
	0.97	0.33	0.64	0.46	3.84	3.34	2.64	1.97	1.10	1.27	0.17	0.61	17.34
<b>Bottineau</b> <b>Drake 9 NE</b> <b>Leeds</b> <b>Rolla 3 NW</b> <b>Rugby</b> <b>Upham 3 N</b> <b>Velva 3 NE</b> <b>Westhope</b> <b>Willow City</b> <b>NORTH CENTRAL</b>	0.99	0.20	1.17	0.93	5.34	4.09	2.54	2.99	1.49	0.99	0.12	0.67*	21.52*
	1.22	0.58	1.57	0.43	3.65	4.10	3.10	1.99	2.66	1.07	0.21	0.30	20.88
	1.90	0.32	2.57	0.86	7.02	2.54*	1.88	2.64	2.59	1.18	0.16	0.39	24.05*
	0.64	0.05	1.17	0.95	4.26	4.33	2.26	4.17	2.45	0.70*	0.09	0.61	21.68*
	0.42	0.40*	1.06	0.60	6.82	3.45*	2.45	2.58	2.88	0.89*	0.20	0.37	22.12*
	1.35	0.27	1.01	0.49	5.05	5.25	3.01	3.40	1.39	1.22	0.12	0.64	23.20
	1.72	0.66	0.70	0.63	4.51*	3.83	2.28	2.10	1.88	1.10	0.42	0.68	20.51*
	1.05	0.30	0.85	0.81	6.36	2.83	2.09	2.03	1.36	1.57	0.08	0.79	20.12
	1.26	0.04*	0.88*	0.63	4.95	4.65	2.17	1.91	2.32	0.99	0.18	0.73	20.71*
	1.01	0.38	1.26	0.69	5.38	4.15	2.41	2.42	2.36	1.20	0.15	0.55	21.96
<b>Cavalier 7 NW</b> <b>Devils Lake KDLR</b> <b>Edmore 1 NW</b> <b>Grafton</b> <b>Grand Forks Intl AP</b> <b>Hansboro 4 NNE</b> <b>Langdon Exp Farm</b> <b>Pembina</b> <b>Petersburg 2 N</b> <b>NORTHEAST</b>	0.56	0.18	2.97	2.11	4.94	1.57	2.12	4.64	2.42	1.34	0.18	1.41	24.44
	1.23	0.36*	3.31*	0.35	5.69	1.12	1.84	M	2.84	1.14	0.15	0.47	M
	1.18	0.19	2.50	1.28	5.26	2.24	2.11	4.03	2.43	1.38	0.02	0.87	23.49
	M	M	2.85	0.78	4.50	1.15	3.20	4.11	3.49	1.75	0.05	1.05	M
	0.73	0.34	1.59	0.41	5.74	0.68	2.05	2.34	4.24	2.19	0.11	0.96	21.38
	0.52*	0.02	1.31	M	2.69	M	2.40	5.59	2.09	M	0.01	0.00*	M
	0.75	0.24	2.23	1.56	5.85	1.83	2.11	3.50	3.31	1.39	0.02	0.80*	23.59*
	1.24	0.34	2.95	1.72	6.62	2.36	2.50	5.26	3.48	2.28*	0.28	0.73*	29.76*
	0.72*	0.41	3.14*	0.76*	5.13	1.12	2.21	2.76	4.05	0.93	0.00*	0.62*	21.85*
	0.91	0.26	2.28	1.05	5.27	1.43	2.55	3.91	3.32	1.47	0.10	1.06	23.61
<b>Beulah 1 W</b> <b>Center 4 SE</b> <b>Dickinson Ranch HQ</b> <b>Garrison 1 NNW</b> <b>Keene 3 S</b> <b>Max</b> <b>Turtle Lake</b> <b>Watford City</b> <b>WEST CENTRAL</b>	0.65	0.33	1.35	0.70	1.13	0.99	1.22	1.32	0.64	2.20*	0.28	0.30	11.11*
	0.96*	0.31	1.33*	1.53	1.92	2.05*	1.90	1.75	1.65	1.31	0.20	0.56*	15.47*
	0.84	0.89*	1.88	0.89	1.31	1.65	1.95	0.93	2.30	3.10	0.20	0.35	16.29*
	0.93*	0.43	1.06	0.62	2.39	2.10	2.51	3.31	0.51*	1.39	0.13	0.26*	15.64*
	1.06	0.19	0.69	0.28	2.18	2.29	2.63	1.27	1.50	2.02	0.22	0.71	15.04
	0.68	0.23	1.20	0.62	2.73	M	3.31	1.62	0.80	1.44	0.30	0.36	M
	1.04	0.36*	1.22	0.55	2.44	2.42	1.53	1.64	M	0.86	0.07	0.30	M
	1.23	0.26	0.68	0.38	2.64	1.93	1.22	1.06	1.80	1.98	0.12	0.51	13.81
	0.90	0.32	1.17	0.73	1.86	1.88	1.81	1.57	1.60	1.88	0.14	0.32	14.18
	0.96	0.47	2.32*	0.97	6.52	1.33	2.50	2.18	3.72	0.96	0.14	0.43	22.50*
<b>Harvey</b> <b>Jamestown Municipal AP</b> <b>McClusky</b> <b>Steele 3 N</b> <b>Streeter 7 NW</b> <b>CENTRAL</b>	M	M	0.40	0.50	5.13	0.69	1.93	1.14	2.18	0.94*	0.18	M	M
	0.17	0.14	2.19	0.77	6.24	2.38	2.76	1.38	3.35	2.15	0.03	0.16	21.72
	1.01	0.75	1.23	0.58	2.97	2.14	1.69	2.07	1.85	0.95	0.08*	0.23	15.55*
	0.45	0.17	1.50	0.74	4.02	2.74	2.76	2.05	2.87	0.42*	0.19	0.18	18.09*
	0.49	0.10	2.24	0.63	5.51	3.45	2.47*	1.92	4.22*	0.88	0.10	0.10	22.11*
	0.73	0.36	2.03	0.68	5.44	2.18	2.42	2.33	3.28	1.09	0.10	0.27	20.91
	M	0.51	1.52	0.40	5.05	1.68	4.24*	1.96	3.51	3.79	T	0.59*	M
	0.65	0.14	1.57	0.74	5.56	2.10	3.91	1.93	3.92	2.53	0.22	0.68	23.95
	M	0.11*	2.62	0.62	7.16	1.43	2.47	5.57	4.38	1.72	0.08	0.76*	M
	0.73	0.72	1.58	0.16	6.22	1.07	4.21	2.01	4.69	3.54	0.05	1.01	25.99
<b>Casselton Agronomy Frm</b> <b>Colgate</b> <b>Cooperstown</b> <b>Fargo Hector Intl AP</b> <b>Mayville</b> <b>Valley City 3 NNW</b> <b>EAST CENTRAL</b>	0.98	0.15	1.41	0.60	4.36	2.55	4.06	2.80	4.12	2.73	0.12	1.55	25.43
	0.73	0.49	2.01	1.05	6.00	1.34	1.78	1.79	4.13	2.88	0.05	0.62	22.87
	0.89	0.37	1.68	0.60	5.65	1.63	3.35	2.58	3.95	2.82	0.09	0.96	24.57
	0.48*	0.07*	0.52*	0.90	1.65*	0.48	1.96	1.29	2.49	3.00	M	M	M
	0.93	1.08*	0.80	0.46	1.33	0.44	2.23	1.26	0.96	2.19	0.20	0.49	12.37*
	0.90	0.64	0.86	1.03	1.68	0.98	3.11	1.32	1.30	3.23	0.12	0.22	15.39
	0.85*	0.49	1.23	0.96	1.40	0.54	2.42	0.63	1.53	2.78	0.19	0.06	13.08*
	0.41*	M	M	0.93	1.15	1.45*	2.14	0.82	1.71	2.79	0.00*	0.20	M
	0.36	0.49	0.80	0.97	1.39*	1.04	2.74	1.31	1.26*	1.96	0.16	0.25	12.73*
	0.06	0.55	1.37	1.19	0.78*	1.07	1.86	2.13	1.23	2.46	0.28	0.34	13.32*
<b>Amidon</b> <b>Bowman</b> <b>Dickinson Exp Station</b> <b>Fairfield</b> <b>Mott</b> <b>New England</b> <b>Richardson Abbey</b> <b>Trotters 3 SSE</b> <b>SOUTHWEST</b>	0.64*	0.00*	2.05	1.36	1.04	0.93	1.49	0.71	1.21	2.82	T	0.10	12.35*
	0.71	0.22	0.38	0.33	1.31	0.50	1.38	0.79	1.62	2.74	0.24	0.36	10.58
	0.54	0.46	1.02	0.86	1.25	0.70	2.38	1.13	1.53	2.60	0.17	0.24	12.88
	0.93*	0.23*	0.94	0.87	0.86	2.69	0.98	1.18	1.41	1.18	0.05	0.12*	11.44*
	0.59	0.31	1.25	0.78	1.39	3.17	2.83	2.29	2.08	1.09	0.14	0.18	16.10
	0.29*	0.06*	0.55	0.43	1.95	2.62	1.52	0.58*	1.10	1.40	M	M	M
	0.70*	0.40	0.30*	0.70	2.55	3.30*	1.69	1.85*	3.05	1.25	0.10	0.10	15.99*
	0.89	0.39	1.09	1.10	2.05	1.56	1.63	1.29	1.43	1.40	0.08	0.14	13.05
	0.72	0.15	1.13	0.81	1.67	2.79	4.28	3.49	1.94	0.75	T	0.16	17.89
	0.60	0.40	1.22	0.90	0.98	1.79	1.53	2.35	2.14	1.47	0.06	0.19	13.63
<b>Almont</b> <b>Bismarck Municipal AP</b> <b>Breien</b> <b>Hazelton</b> <b>Heart Butte Dam</b> <b>Mandan Exp Station</b> <b>New Salem 5 NW</b> <b>Pretty Rock</b> <b>SOUTH CENTRAL</b>	0.38	0.39	0.63	0.45	2.28	1.39	2.53	1.19	1.21	1.49	0.16	0.07	12.17
	0.62	0.33	0.98	0.78	2.00	2.66	2.14	1.82	1.90	1.38	0.08	0.15	14.84
	0.36	0.14	1.53	0.42	4.07	1.81	1.92	1.00	4.52	2.66	0.82	0.07	19.32
	0.55	0.24	0.98	0.87	6.86	2.53	3.16	0.97	3.53	3.10	0.12	0.42	23.33
	0.30	0.24	1.71	0.79	6.53	2.20	2.41*	1.40	5.35	2.97	0.36	0.06*	24.32*
	0.55	0.30	1.51	0.60	7.14	2.72	4.08	1.90	5.38	M	0.27	0.57	M
	0.48*	0.26	0.82*	0.24	5.46	1.33*	M	0.69	5.14	4.60	0.11	0.48*	M
	0.42	0.38	1.02	0.60	6.31	1.93	4.16	1.62	7.17	2.39	0.03	0.59*	26.62*
	0.58	0.43	2.29	0.57	3.14	4.43	1.14	2.41	3.71	1.83	0.19	0.09	20.81
	0.46	0.28</											

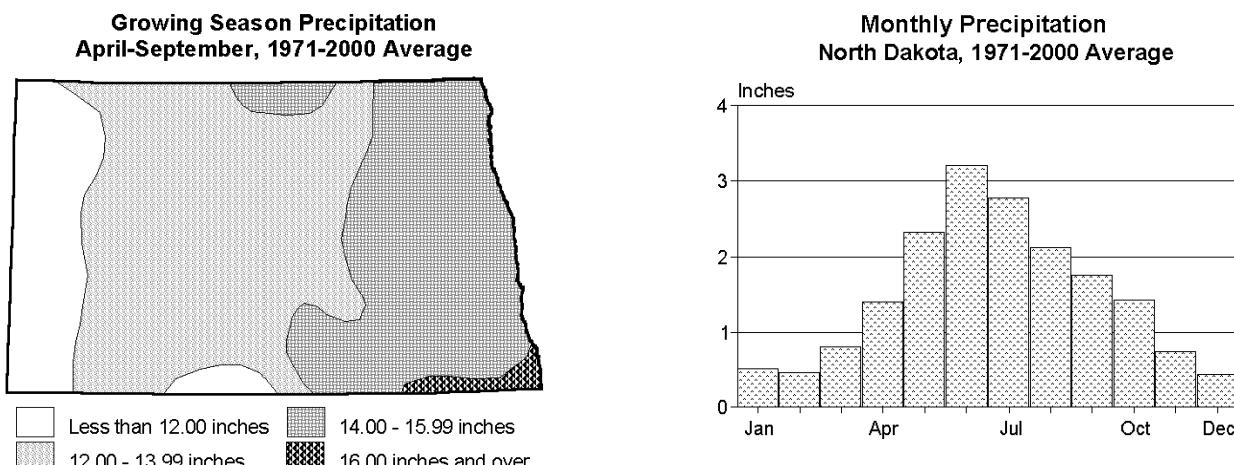
## Monthly Temperature: North Dakota, 2004

TEMPERATURE

Districts and Stations	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
Crosby	2.5	15.0	29.1	44.5	50.3	58.7	67.2	61.0	58.4	43.2	32.6	18.4	40.1
Fortuna 1 W	0.2	10.5	25.6	41.4	46.8	56.1	64.5	59.4	54.3	38.5	28.7	16.9*	36.9*
Kenmare 1 WSW	1.1	14.7	28.0	41.6	47.3	58.6	67.2	59.2	57.2	41.7	32.8	18.7*	39.0*
Minot Exp Station	1.4	14.7	28.7	42.7	48.4	58.9	66.2	60.4	58.0	43.6	33.8	19.9	39.7
Mohall	-1.5	12.4	26.3*	41.6	46.2	M	65.2	59.4	56.8	42.3	32.8	16.5*	M
Powers Lake 1 N	-1.3	10.3	M	40.6	45.7	56.5	65.4	58.9	55.7	40.6	32.9*	17.9*	M
Stanley 3 NW	-0.2	12.4	26.2	40.8	46.5	56.1	64.1	59.3	55.6	41.1	31.2	18.1	37.6
Wildrose 3 NW	0.0	11.7	25.6	41.8	47.3	56.7	64.2	59.0	55.5	40.2	30.6	17.4	37.5
Williston Exp Farm	7.4	18.3	35.1	47.6	52.2	60.9	70.3	65.4	61.8	46.6	35.8	23.1	43.7
<b>NORTHWEST</b>	1.5	13.7	29.1	42.9	48.2	57.9	66.6	61.0	57.7	42.3	32.6	18.9	39.4
Bottineau	-3.5	12.2	24.6	41.1	46.6	57.7	65.7	60.0*	56.4	41.7	31.6	15.1*	37.4*
Drake 9 NE	-0.6	12.7	26.0	42.5	49.0	59.2	67.0	61.6	58.6	43.7	33.5	18.5	39.3
Leeds	-1.7	12.7	23.9	40.2	47.5	59.7	66.8	58.8	58.0	43.4	32.4	15.7	38.1
Rolla 3 NW	-2.8	12.5	24.1	38.8	44.2	56.0	63.0	56.3	56.3	39.2	31.4	10.9	35.8
Rugby	-3.1	13.6	24.7	40.4	47.2	57.9	65.3	59.4	57.3	43.4	32.0	15.2	37.8
Upham 3 N	-2.5	11.8	25.6	42.4	48.3	58.6	65.9	59.2	56.1	42.7	31.6	16.4	38.0
Velva 3 NE	-0.4	12.4	27.6	42.3	49.0	57.8	64.7	59.0	56.7	43.5	32.9	18.1	38.6
Westhope	-1.1	13.4	26.1	44.0	49.3	60.3	66.9	60.9	59.5	44.2	32.7	16.0	39.4
Willow City	-2.5	10.2	24.0	41.4	48.2	58.4	66.0	59.1	56.6	42.0	31.3	15.5	37.5
<b>NORTH CENTRAL</b>	-1.7	12.3	25.0	41.1	47.7	58.2	65.5	59.3	57.2	42.5	32.1	15.4	37.9
Cavalier 7 NW	-3.7	11.6	23.9	39.9	47.3	58.8	65.2	58.6	58.1	43.0	33.2	11.5	37.3
Devils Lake KDLR	-0.4	13.2	25.2	41.8	49.8	60.5	67.6	M	59.8	44.3	34.0	16.3*	M
Edmore 1 NW	-3.7	11.3	22.0	39.4	47.1	57.6	64.6	57.7	57.3	42.0	30.7	11.9*	36.5*
Grafton	-0.9	13.7	28.6	41.9	52.2	62.9	69.2	62.5	62.4	47.1	35.1	14.7	40.8
Grand Forks Intl AP	-0.9	11.8	25.4	40.8	49.5	60.0	65.8	59.6	59.8	44.6	31.7	15.5	38.6
Hansboro 4 NNE	-1.4	11.5	26.6	M	46.3	M	65.9	58.5	58.5	M	33.4	11.0*	M
Langdon Exp Farm	-5.0	9.6	21.5	38.2	45.2	57.0	63.7	56.6	56.8	41.0	30.6	10.9	35.5
Pembina	-3.8	10.4	22.6	39.0	46.7	58.4	65.5	56.0*	58.4	42.2	32.2	9.2	36.4*
Petersburg 2 N	-3.1	9.7	23.0	39.9	48.2	59.0	66.3	59.8	57.8	42.7	31.7	12.8	37.3
<b>NORTHEAST</b>	-2.1	11.6	24.6	40.2	48.2	59.5	66.0	59.0	58.9	43.6	32.6	13.1	37.9
Beulah 1 W	6.3	17.3	34.8	46.5	53.0	59.9	70.3	65.5	62.4	46.8*	35.3	23.2	43.4*
Center 4 SE	5.3	16.5	32.5*	44.4	50.1	57.2*	66.8	60.9	58.6*	44.0	34.2	21.1	41.0*
Dickinson Ranch HQ	8.0	18.9	34.2	43.5	50.9	58.2	68.9	63.8	59.1	43.1	35.0	23.5	42.3
Garrison 1 NNW	1.6	13.0	28.5	43.0	49.2	M	66.1	61.4	57.5	43.3	33.1	22.3*	M
Keene 3 S	5.6	17.7	33.4	45.8	50.8	58.2	68.5	63.7	61.0	45.4	34.5	21.8	42.2
Max	2.1	14.2	28.2	42.7	49.1	M	67.1	61.3	58.1	43.2	33.6	19.6	M
Turtle Lake	2.4	14.2	32.1	46.3	53.1	62.2	70.7	64.5	M	46.3	34.5	20.6	M
Watford City	5.3	16.9	32.4	44.0	49.4	58.2	67.7	62.2	59.0	43.8	33.9	23.3	41.3
<b>WEST CENTRAL</b>	5.4	16.9	32.5	44.6	50.6	58.9	68.4	63.2	59.6	44.4	34.5	22.3	41.8
Carrington 4N	-0.1*	16.3	29.9	43.5	48.9	60.5	67.0	60.6	57.8	43.7	33.4*	18.4	40.0*
Harvey	M	M	30.2	45.4	50.4*	59.8	68.1	58.6	60.6	46.1	34.6	M	M
Jamestown Municipal AP	3.2	15.2	29.8	42.8	50.2	60.3	67.4	61.8	59.2	44.5	33.3	18.7	40.5
McClusky	5.7	17.4	31.3	46.2	52.2	60.7	68.6	63.0	61.4	47.2	35.6	21.6	42.6
Steele 3 N	4.8	16.8	31.8	44.7	51.5	58.8	67.5	61.7	60.3	45.4*	33.6	20.6	41.5*
Streeter 7 NW	3.8	13.0	29.2	41.8	48.8	57.1	65.4	59.9	58.5	44.9	33.0	19.1	39.5
<b>CENTRAL</b>	2.8	14.9	29.3	43.5	49.8	59.6	67.4	61.0	59.6	45.1	33.8	19.3	40.5
Casselton Agronomy Frm	2.6	12.8	30.3	44.2	52.5	62.5	67.8	61.9	61.0	45.8	34.6	18.7	41.2
Colgate	0.0	10.7	26.9	42.6	50.4	60.4*	67.3*	60.4	58.9	44.1	32.8	15.4	39.2*
Cooperstown	M	12.0	26.5	41.7	49.7	59.5	64.7	59.3	58.5	44.3	31.8*	16.9*	M
Fargo Hector Intl AP	3.2	14.7	30.3	44.3	52.3	62.7	68.2	62.2	62.9	47.0	34.2	18.0	41.7
Mayville	0.9	11.6	26.4*	42.4	50.4	61.5	67.1	60.9	59.7	45.1	32.6	15.8	39.5*
Valley City 3 NNW	2.2	13.1	29.0	42.8	50.9	60.8	67.6	61.4	60.1	44.4	32.9	18.4	40.3
<b>EAST CENTRAL</b>	1.9	12.9	28.3	43.1	51.1	61.5	67.2	61.3	60.5	45.5	33.3	17.2	40.3
Amidon	12.2*	23.5*	36.4*	46.0	50.4*	59.8	70.2	63.9	60.7*	45.2*	M	M	M
Beach	11.5	21.1	36.3	46.1	51.8	59.6	69.9	65.1	60.5	45.9	34.9	25.4	44.0
Bowman	11.9	19.6	34.9	45.2	51.0	59.2	68.7	63.8	59.7	45.0	34.3	25.7	43.3
Dickinson Exp Station	8.3	18.2	33.0	43.6	49.1	57.8	68.6	63.3	59.3	43.7	33.5	23.3	41.8
Fairfield	7.7	M	32.1	43.3	48.3	57.7	67.5	61.8	56.9	42.8	31.8	22.2	M
Mott	10.4	18.6	35.7	45.4	52.7	60.5	68.8	64.4	59.3	44.2	33.8	25.1	43.2
New England	11.5	20.1	36.1	45.6	52.4	59.3	69.4	64.2	60.3	45.3	34.6	25.3	43.7
Richardson Abbey	9.2	19.4	35.0	45.9	52.3	60.5	70.2	64.5	61.3	46.3	35.8	24.0	43.7
Trotters 3 SSE	10.4	19.9	36.5	46.4	51.9	59.6	70.6	65.5	61.2	45.2	35.3	25.2	44.0
<b>SOUTHWEST</b>	10.7	20.2	35.0	45.4	51.2	59.3	69.2	64.2	60.2	44.8	34.3	24.6	43.3
Almont	9.1	18.1	35.3	46.3	52.9	59.5	69.5	65.4*	61.0	46.1	34.8	23.2	43.4*
Bismarck Municipal AP	7.7	17.4	35.3	46.0	53.6	61.6	70.1	64.5	61.1	46.0	35.1	22.0	43.4
Breien	9.0	18.2	36.7	46.7	54.5	61.0	70.9	64.0*	M	M	M	M	M
Hazelton	5.9	15.6	31.2	43.4	52.1	59.5	68.7	62.6	59.4	44.5	33.9	20.0	41.4
Heart Butte Dam	8.9	17.5	34.5	45.1	52.2	60.5	70.0	64.3	60.0	45.4	35.2	22.5	43.0
Mandan Exp Station	6.7	16.6	33.7	45.2	52.3	59.6	68.9	63.4	60.0	45.2	35.1	22.2	42.4
New Salem 5 NW	4.8	14.8	31.7	44.7	50.8	57.9	67.9	63.5	59.3	44.3	34.0	21.6	41.3
Pretty Rock	10.6	19.8	36.8	46.4	52.9	60.8	69.6	64.6	61.8	46.9	34.7	25.3	44.2
<b>SOUTH CENTRAL</b>	7.2	16.9	34.1	45.4	52.5	60.0	69.4	63.9	60.1	45.3	34.4	22.2	42.6
Ashley	7.7	17.1	33.7	45.1	51.6	59.8	68.1	62.3	61.2	46.1	34.1	21.4	42.4
Forman 5 SSE	6.3	15.0	32.9	44.7	52.2	60.7*	M	M	61.9	47.0	34.6	20.1	M
Fullerton 1 ESE	7.7	19.4	34.1	45.4	53.5	61.8	68.1	64.0	61.5	47.5	34.3	21.6	43.2
Lidgerwood	6.8	16.1	32.8	45.3	52.8	62.2	69.0	63.5	62.4	M	35.9	21.0	M
Lisbon	7.3	16.3	34.4	45.8	52.2	62.1	M	64.1	62.3	48.4	34.9	21.2*	M
McLeod 3 E	4.6	14.4	32.3	45.4	53.1	62.0	68.6	62.4	62.0	46.3	34.6	19.1	42.1
Napoleon	5.9	14.6	31.4	44.0	50.8	59.5	67.9	61.9	60.2	44.0	34.2	20.8	41.3
<b>SOUTHEAST</b>	6.5	16.3	33.2	45.2	52.5	61.2	68.1	63.0	61.7	47.1	34.9	20.9	42.6
<b>STATE</b>	3.6	15.1	30.1	43.5	50.2	59.6	67.5	61.8	59.5	44.5	33.6	19.3	40.7

Source: National Climatic Data Center \* = Partially estimated. M = Missing.

## **Growing Season Average**



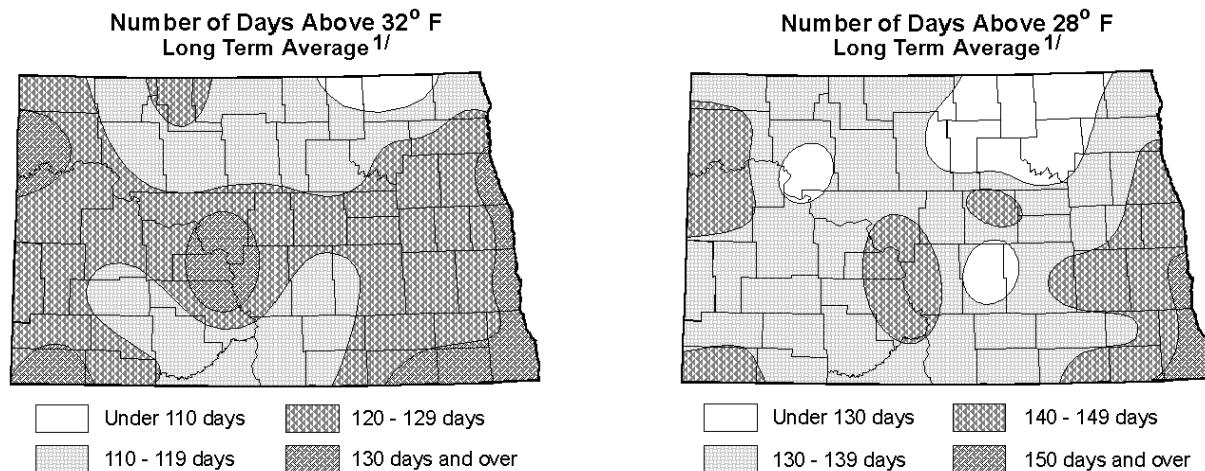
## **Usual Planting and Harvesting Dates: North Dakota**

The chart illustrates the seasonal timing of various agricultural activities across different crops. Frost-Free Days begin in late April and last through early September. Planting generally occurs in April or May, while harvesting typically begins in July and continues through October. Specific crops like Alfalfa and Potatoes have unique growth patterns, with Alfalfa being harvested later than most other crops.

Crop	Planting (approx.)	Harvesting (approx.)	Frost-Free Days (approx.)
Frost-Free Days (28° or above)			May - Sept
Barley	Apr	July	May - Sept
Beans, Dry Edible	May	Sept	May - Sept
Corn, Grain	May	Oct	May - Oct
Silage	May	Sept	May - Sept
Flaxseed	May	Sept	May - Sept
Hay, Alfalfa		July	June - Sept
Other		July	June - Sept
Oats	Apr	Sept	May - Sept
Potatoes	May	Sept	May - Sept
Rye		Sept	July - Sept
Soybeans	May	Sept	May - Sept
Sugarbeets	Apr	Sept	May - Sept
Sunflower	May	Sept	May - Sept
Wheat, Durum	May	Sept	May - Sept
Spring	Apr	Sept	May - Sept
Winter		Sept	July - Sept

*Source: Usual Planting and Harvesting Dates for US Field Crops, USDA/NASS, December 1997.*

## Growing Season Average



### Length of Growing Season at Temperatures of 28°F and 32°F or above: North Dakota

Station	County	Average Date of Last Spring Frost		Average Date of First Frost in Fall		Average Number of Days in Growing Season		Number of Years in Average
		28°	32°	32°	28°	32°	28°	
<b>NORTHWEST</b>								
Crosby	Divide	Date May 10	Date May 18	Date Sep 16	Date Sep 23	Days 120	Days 137	Years 63
Minot Exp.	Ward	May 12	May 20	Sep 17	Sep 26	119	137	69
Mohall	Renville	May 11	May 18	Sep 16	Sep 23	122	135	44
Parshall	Mounttrail	May 15	May 21	Sep 12	Sep 18	114	126	59
Powers Lake	Burke	May 15	May 23	Sep 11	Sep 23	111	133	41
Williston	Williams	May 4	May 13	Sep 22	Sep 28	132	146	78
<b>NORTH CENTRAL</b>								
Bottineau	Bottineau	May 15	May 21	Sep 15	Sep 23	116	130	70
Granville	McHenry	May 13	May 19	Sep 15	Sep 25	119	134	65
Maddock	Benson	May 15	May 23	Sep 13	Sep 21	113	129	53
Towner	McHenry	May 14	May 21	Sep 12	Sep 21	114	129	54
<b>NORTHEAST</b>								
Grafton	Walsh	May 9	May 18	Sep 19	Sep 25	123	139	70
Grand Forks	Grand Forks	May 6	May 16	Sep 23	Sep 29	130	146	66
Hansboro	Towner	May 17	May 27	Sep 11	Sep 18	106	124	65
Langdon Exp.	Cavalier	May 17	May 28	Sep 13	Sep 21	109	126	69
Pembina	Pembina	May 12	May 21	Sep 17	Sep 25	119	135	70
<b>WEST CENTRAL</b>								
Dunn Center	Dunn	May 12	May 17	Sep 18	Sep 27	122	137	50
Garrison	McLean	May 8	May 18	Sep 19	Sep 25	124	139	62
Washburn	McLean	May 6	May 13	Sep 24	Oct 1	137	148	26
Watford City	McKenzie	May 7	May 13	Sep 19	Sep 27	127	141	34
<b>CENTRAL</b>								
Fessenden	Wells	May 8	May 17	Sep 18	Sep 26	123	140	40
Jamestown	Stutsman	May 5	May 15	Sep 20	Sep 29	128	146	73
McClusky	Sheridan	May 11	May 20	Sep 18	Sep 26	120	137	54
Pettibone	Kidder	May 13	May 22	Sep 12	Sep 17	111	124	46
<b>EAST CENTRAL</b>								
Amenia	Cass	May 6	May 15	Sep 23	Sep 28	130	144	73
Cooperstown	Griggs	May 11	May 21	Sep 19	Sep 26	121	138	49
Fargo	Cass	May 4	May 12	Sep 26	Oct 2	137	151	66
Mayville	Traill	May 8	May 17	Sep 24	Oct 2	129	147	57
<b>SOUTHWEST</b>								
Beach	Golden Valley	May 12	May 20	Sep 18	Sep 27	121	138	58
Bowman	Bowman	May 6	May 14	Sep 21	Sep 30	130	146	52
Dickinson Exp.	Stark	May 12	May 19	Sep 14	Sep 22	117	132	72
Hettinger	Adams	May 11	May 18	Sep 20	Sep 27	124	137	36
Marmarth	Slope	May 11	May 16	Sep 15	Sep 23	122	136	43
<b>SOUTH CENTRAL</b>								
Carson #2	Grant	May 11	May 19	Sep 15	Sep 24	119	135	59
Mandan Exp.	Morton	May 7	May 12	Sep 23	Sep 28	133	144	59
<b>SOUTHEAST</b>								
Edgeley Exp.	LaMoure	May 11	May 18	Sep 19	Sep 28	123	139	66
Lisbon	Ransom	May 10	May 19	Sep 20	Sep 27	123	139	64
McLeod	Ransom	May 9	May 15	Sep 22	Sep 29	129	143	62
Napoleon	Logan	May 14	May 21	Sep 16	Sep 23	118	132	72
Oakes	Dickey	May 5	May 13	Sep 23	Oct 1	133	149	46
Wahpeton	Richland	May 4	May 13	Sep 25	Oct 3	136	151	65

Source: National Climatic Data Center 1/ Based on data for selected stations. Number of years used in average ranges by station from 26-78 years.

# Average Precipitation: North Dakota, 1971-2000

Districts and Stations	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
----- Inches -----													
Crosby	0.48	0.33	0.59	1.02	2.01	2.69	2.75	1.54	1.62	0.93	0.53	0.45	14.94
Fortuna 1 W	0.34	0.36	0.76	0.99	1.98	2.87	2.71	1.62	1.33	0.85	0.33	0.39	14.53
Kenmare 1 WSW	0.83	0.63	0.90	1.26	2.07	2.66	2.67	1.80	1.92	1.19	0.69	0.53	17.15
Minot Exp Station	0.77	0.60	1.03	1.56	2.28	3.01	2.52	2.01	1.78	1.40	1.05	0.64	18.65
Mohall	0.52	0.42	0.73	1.24	2.17	2.98	2.86	2.17	1.89	1.46	0.63	0.39	17.46
Powers Lake 1 N	0.38	0.37	0.72	1.27	2.12	2.74	2.90	1.94	1.71	1.07	0.55	0.33	16.10
Tioga 1 E	0.48	0.36	0.58	1.17	2.00	2.60	2.20	1.80	1.58	0.94	0.59	0.40	14.70
Wildrose 3 NW	0.42	0.35	0.60	1.00	2.04	2.56	2.83	1.56	1.48	0.83	0.53	0.45	14.65
Williston Exp Farm	0.48	0.34	0.62	1.13	2.09	2.72	2.45	1.63	1.56	0.94	0.58	0.45	14.99
<b>NORTHWEST</b>	<b>0.52</b>	<b>0.45</b>	<b>0.75</b>	<b>1.25</b>	<b>2.12</b>	<b>2.89</b>	<b>2.64</b>	<b>1.80</b>	<b>1.69</b>	<b>1.09</b>	<b>0.63</b>	<b>0.47</b>	<b>16.30</b>
Bottineau	0.49	0.46	0.79	1.22	2.16	3.29	3.04	2.62	1.94	1.27	0.66	0.51	18.45
Drake 9 NE	0.36	0.39	0.60	1.25	2.26	3.04	2.75	1.97	1.48	1.24	0.68	0.34	16.36
Leeds	0.55	0.51	0.83	1.28	2.08	2.98	3.17	2.07	1.61	1.53	0.84	0.48	17.93
Rolla 3 NW	0.51	0.52	0.76	1.13	2.30	3.41	2.87	2.55	1.95	1.25	0.80	0.53	18.58
Rugby	0.51	0.45	0.80	1.28	2.25	3.05	3.21	2.28	1.92	1.32	0.70	0.50	18.27
Upham 3 N	0.57	0.47	0.76	1.33	2.07	3.32	2.71	2.00	1.80	1.28	0.85	0.56	17.72
Velva 3 NE	0.68	0.50	0.78	1.34	2.30	3.22	2.80	1.83	1.62	1.61	0.92	0.50	18.10
Westhope	0.47	0.46	0.71	1.16	2.06	3.03	2.90	2.04	1.87	1.21	0.62	0.49	17.02
Willow City	0.52	0.42	0.78	1.18	1.99	3.10	2.85	2.34	1.72	1.20	0.63	0.44	17.17
<b>NORTH CENTRAL</b>	<b>0.50</b>	<b>0.47</b>	<b>0.76</b>	<b>1.27</b>	<b>2.17</b>	<b>3.17</b>	<b>2.92</b>	<b>2.21</b>	<b>1.77</b>	<b>1.35</b>	<b>0.73</b>	<b>0.49</b>	<b>17.81</b>
Cavalier 7 NW	0.39	0.41	0.66	1.10	2.19	3.17	3.31	2.63	1.78	1.54	0.68	0.39	18.25
Devils Lake KDLR	0.58	0.51	0.80	0.90	2.14	3.83	3.29	2.21	1.80	1.47	0.83	0.57	18.93
Edmore 1 NW	0.50	0.40	0.65	1.02	2.15	3.21	3.32	2.59	1.71	1.39	0.74	0.48	18.16
Grafton	0.52	0.50	0.85	1.13	2.31	3.30	2.77	2.39	1.76	1.46	0.90	0.43	18.32
Grand Forks Intl AP	0.68	0.58	0.89	1.23	2.21	3.03	3.06	2.72	1.96	1.70	0.99	0.55	19.60
Hansboro 4 NNE	0.64	0.63	0.85	1.12	2.39	3.19	2.87	2.59	1.62	1.22	0.81	0.57	18.50
Langdon Exp Farm	0.42	0.39	0.61	1.00	2.36	3.33	3.18	2.73	1.66	1.38	0.66	0.39	18.11
Pembina	0.44	0.40	0.72	0.99	2.09	3.41	2.95	2.68	2.12	1.48	0.85	0.45	18.58
Petersburg 2 N	0.66	0.43	0.94	1.17	2.27	3.62	3.25	2.71	2.06	1.54	0.90	0.51	20.06
<b>NORTHEAST</b>	<b>0.57</b>	<b>0.47</b>	<b>0.80</b>	<b>1.12</b>	<b>2.24</b>	<b>3.34</b>	<b>3.09</b>	<b>2.64</b>	<b>1.88</b>	<b>1.49</b>	<b>0.85</b>	<b>0.50</b>	<b>18.99</b>
Beulah 1 W	0.31	0.42	0.73	1.71	2.21	3.30	2.35	1.53	1.60	1.35	0.70	0.38	16.59
Center 4 SE	0.40	0.45	0.71	1.63	2.30	3.00	2.70	1.85	1.85	1.55	0.62	0.42	17.48
Dickinson Ranch HQ	0.37	0.35	0.61	1.50	2.03	3.18	2.30	1.79	1.40	1.06	0.58	0.33	15.50
Garrison 1 NNW	0.39	0.36	0.63	1.27	2.10	3.12	2.62	1.91	1.44	1.22	0.57	0.39	16.02
Keene 3 S	0.39	0.37	0.59	1.26	2.32	3.19	2.47	1.51	1.68	1.16	0.66	0.40	16.00
Max	0.55	0.43	0.74	1.48	2.16	3.21	2.69	1.84	1.72	1.41	0.63	0.44	17.30
Turtle Lake	0.63	0.49	0.85	1.44	2.19	3.32	2.67	1.96	1.50	1.32	0.73	0.52	17.62
Watford City	0.45	0.39	0.56	1.04	2.13	3.05	2.11	1.55	1.30	0.77	0.65	0.41	14.41
<b>WEST CENTRAL</b>	<b>0.44</b>	<b>0.43</b>	<b>0.68</b>	<b>1.44</b>	<b>2.20</b>	<b>3.18</b>	<b>2.48</b>	<b>1.73</b>	<b>1.62</b>	<b>1.33</b>	<b>0.67</b>	<b>0.42</b>	<b>16.62</b>
Carrington	0.68	0.56	0.91	1.36	2.11	3.32	3.15	2.19	1.60	1.45	0.89	0.51	18.73
Harvey	0.42	0.28	0.62	0.78	1.97	2.80	2.29	2.29	1.45	1.48	0.45	0.28	15.11
Jamestown Municipal AP	0.62	0.52	0.89	1.36	2.21	3.05	3.22	2.33	1.74	1.40	0.71	0.44	18.49
McClusky	0.58	0.49	0.71	1.49	2.13	3.41	2.61	2.06	1.61	1.39	0.71	0.49	17.68
Steele 3 N	0.48	0.44	0.98	1.51	2.53	3.24	2.95	2.01	1.90	1.55	0.74	0.44	18.77
Streeter 7 NW	0.31	0.34	0.68	1.26	1.96	3.04	3.09	2.38	1.97	1.10	0.69	0.27	17.09
<b>CENTRAL</b>	<b>0.54</b>	<b>0.44</b>	<b>0.75</b>	<b>1.35</b>	<b>2.24</b>	<b>3.34</b>	<b>2.97</b>	<b>2.29</b>	<b>1.79</b>	<b>1.46</b>	<b>0.74</b>	<b>0.43</b>	<b>18.34</b>
Casselton Agronomy Frm	0.75	0.51	1.23	1.43	2.67	3.60	3.24	2.68	2.13	1.89	1.03	0.37	21.53
Colgate	0.47	0.39	0.81	1.17	2.49	3.08	2.65	2.42	2.06	1.69	0.76	0.38	18.37
Cooperstown	0.67	0.53	1.01	1.31	2.56	3.30	3.33	2.78	1.96	1.65	0.90	0.50	20.50
Fargo Hector AP	0.76	0.59	1.17	1.37	2.61	3.51	2.88	2.52	2.18	1.97	1.06	0.57	21.19
Hillsboro 3 N	0.50	0.55	0.93	1.56	2.35	3.46	3.23	2.78	2.05	1.92	0.89	0.48	20.70
Sharon	0.68	0.54	1.12	1.33	2.65	3.55	3.45	2.67	2.05	1.67	0.97	0.55	21.23
Valley City 3 NNW	0.54	0.46	0.80	1.22	2.60	3.27	2.75	2.43	2.10	1.53	0.80	0.39	18.89
<b>EAST CENTRAL</b>	<b>0.64</b>	<b>0.53</b>	<b>1.01</b>	<b>1.36</b>	<b>2.54</b>	<b>3.39</b>	<b>3.10</b>	<b>2.64</b>	<b>2.11</b>	<b>1.81</b>	<b>0.95</b>	<b>0.50</b>	<b>20.58</b>
Amidon	0.37	0.35	0.57	1.15	2.29	3.06	2.24	1.42	1.37	1.17	0.53	0.33	14.85
Beach	0.43	0.47	0.62	1.56	2.41	2.63	1.93	1.41	1.53	1.20	0.70	0.37	15.26
Bowman	0.49	0.48	0.73	1.32	2.53	3.07	2.03	1.20	1.31	1.33	0.59	0.42	15.50
Dickinson Exp Station	0.35	0.37	0.67	1.63	2.24	3.57	2.20	1.65	1.62	1.31	0.63	0.37	16.61
Fairfield	0.31	0.33	0.56	1.41	2.04	2.95	2.10	1.62	1.50	1.16	0.50	0.31	14.79
Mott	0.41	0.50	0.80	1.83	2.59	3.17	2.13	1.69	1.26	1.24	0.55	0.38	16.55
New England	0.38	0.39	0.69	1.62	2.46	3.38	1.93	1.73	1.44	1.37	0.47	0.38	16.24
Richardson Abbey	0.45	0.48	0.86	1.75	2.49	3.39	2.27	1.88	1.60	1.41	0.75	0.45	17.78
Trotters 3 SSE	0.35	0.39	0.58	1.23	2.09	2.90	1.89	1.50	1.61	1.16	0.61	0.40	14.71
<b>SOUTHWEST</b>	<b>0.39</b>	<b>0.41</b>	<b>0.68</b>	<b>1.51</b>	<b>2.35</b>	<b>3.11</b>	<b>2.12</b>	<b>1.54</b>	<b>1.47</b>	<b>1.27</b>	<b>0.60</b>	<b>0.38</b>	<b>15.83</b>
Almont	0.37	0.33	0.63	1.49	2.22	3.41	2.48	2.28	1.24	1.17	0.62	0.40	16.64
Bismarck Municipal AP	0.45	0.51	0.85	1.46	2.22	2.59	2.58	2.15	1.61	1.28	0.70	0.44	16.84
Breien	0.35	0.38	0.66	1.60	2.49	2.92	2.69	1.77	1.48	1.32	0.52	0.35	16.53
Fort Yates 4 SW	0.24	0.30	0.66	1.34	2.16	2.64	2.06	1.62	1.28	1.26	0.35	0.23	14.14
Heart Butte Dam	0.51	0.32	0.87	1.70	2.34	2.91	2.31	1.45	1.16	0.99	0.77	0.42	15.75
Mandan Exp Station	0.38	0.37	0.58	1.52	2.41	2.91	2.90	2.02	1.56	1.41	0.62	0.36	17.04
New Salem 5 NW	0.47	0.49	0.81	1.88	2.42	3.17	2.76	2.11	1.53	1.38	0.76	0.50	18.28
Pretty Rock	0.33	0.41	0.86	1.89	2.64	3.02	2.34	1.76	1.40	1.34	0.62	0.31	16.92
<b>SOUTH CENTRAL</b>	<b>0.37</b>	<b>0.40</b>	<b>0.75</b>	<b>1.62</b>	<b>2.37</b>	<b>3.02</b>	<b>2.63</b>	<b>1.96</b>	<b>1.48</b>	<b>1.34</b>	<b>0.62</b>	<b>0.37</b>	<b>16.93</b>
Ashley	0.41	0.39	0.94	1.49	2.73	3.48	2.52	2.30	1.57	1.57	0.61	0.29	18.30
Forman 5 SSE	0.65	0.53	1.24	1.68	2.60	3.54	3.02	2.25	1.93	1.68	1.02	0.44	20.58
Fullerton 1 ESE	0.75	0.66	1.44	1.91	2.84	3.16	2.88	2.22	2.02	1.80	1.03	0.41	21.12
Gackle	0.44	0.38	0.94	1.49	2.61	3.37	3.06	2.03	1.89	1.48	0.77	0.35	18.81
LaMoure	0.78	0.64	1.36	1.85	2.67	3.69	3.42	2.30	1.90	1.78	0.91	0.45	21.75
Lisbon	0.63	0.48	1.09	1.47	2.59	3.45	2.87	2.27	2.20	1.82	0.86	0.45	

# Average Temperature: North Dakota, 1971-2000

TEMPERATURE

Districts and Stations	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
----- Degrees Fahrenheit -----													
Crosby	8.1	16.2	28.1	43.3	56.1	64.6	69.2	67.8	56.5	44.2	25.8	12.9	41.1
Fortuna 1 W	5.6	13.6	25.0	40.2	53.1	62.2	67.1	65.8	53.8	41.3	23.7	11.1	38.5
Kenmare 1 WSW	6.7	14.2	25.2	40.4	53.4	62.4	67.0	65.4	54.3	42.1	25.1	12.2	39.0
Minot Exp Station	7.5	14.6	25.9	41.1	55.0	63.9	68.4	67.0	55.6	43.2	25.9	12.8	40.1
Mohall	5.9	13.0	24.3	39.4	53.0	61.9	66.3	65.2	53.8	41.7	24.9	11.5	38.4
Powers Lake 1 N	5.3	13.3	24.9	40.1	53.2	61.7	66.5	65.5	54.0	41.6	24.2	10.8	38.4
Tioga 1 E	6.9	15.1	26.3	40.8	53.4	62.4	67.4	66.5	54.5	42.4	24.9	12.1	39.4
Wildrose 3 NW	6.1	13.8	25.5	40.7	53.5	62.4	67.1	65.8	54.3	41.9	24.6	11.6	38.9
Williston Exp Farm	11.3	19.7	31.1	44.9	57.1	65.7	71.1	70.2	58.8	46.7	28.4	16.1	43.4
<b>NORTHWEST</b>	7.3	15.2	26.5	41.2	53.8	62.8	67.6	66.3	54.9	42.7	25.4	12.5	39.7
Bottineau	3.0	10.5	22.9	39.7	53.8	62.4	66.7	65.5	54.4	41.4	23.2	8.5	37.7
Drake 9 NE	5.0	12.5	24.5	41.0	55.4	64.1	68.6	67.0	56.3	43.0	24.4	10.6	39.4
Leeds	4.1	11.2	22.4	38.8	53.5	62.7	67.0	65.1	54.2	42.1	24.3	10.0	38.0
Rolla 3 NW	4.1	10.6	21.5	37.6	51.6	60.1	65.1	64.0	53.1	40.9	22.9	9.2	36.7
Rugby	5.6	13.5	25.5	42.2	56.0	64.5	68.7	67.4	56.0	43.6	24.8	10.5	39.9
Upham 3 N	3.3	11.4	23.8	40.8	54.8	63.3	67.4	66.0	54.5	41.4	23.7	9.3	38.3
Velva 3 NE	7.1	14.6	26.3	41.5	55.5	64.4	69.1	67.0	56.1	43.6	25.7	12.6	40.3
Westhope	4.7	12.8	25.2	42.2	55.9	64.0	67.9	66.9	56.2	43.4	24.6	10.0	39.5
Willow City	2.1	9.8	22.3	39.9	54.1	62.7	67.0	65.3	53.8	41.2	23.2	8.2	37.5
<b>NORTH CENTRAL</b>	4.7	12.4	24.3	40.5	54.1	62.9	67.3	65.9	54.7	42.2	24.3	10.1	38.6
Cavalier 7 NW	2.5	9.9	22.5	39.8	54.4	63.1	67.1	65.4	55.0	42.4	24.1	8.9	37.9
Devils Lake KDLR	6.1	13.8	25.5	42.1	56.2	64.8	69.4	67.7	57.1	44.3	25.8	11.5	40.4
Edmore 1 NW	0.7	8.1	21.6	39.3	53.7	62.2	66.5	65.2	54.5	41.3	21.9	6.9	36.8
Grafton	5.1	12.9	25.7	43.0	58.2	67.0	71.1	69.6	58.9	45.6	26.3	11.0	41.2
Grand Forks Intl AP	5.3	13.1	25.7	42.3	56.8	65.2	69.4	67.8	57.0	44.3	25.8	11.3	40.3
Hansboro 4 NNE	0.8	8.8	21.3	38.7	53.0	61.2	65.5	64.2	53.5	40.5	20.9	6.7	36.3
Langdon Exp Farm	0.4	7.6	20.2	37.8	52.6	61.5	65.4	64.2	53.5	40.2	21.5	6.6	36.0
Pembina	1.2	8.6	21.9	39.5	54.5	63.0	66.9	65.1	54.4	41.6	23.5	7.9	37.3
Petersburg 2 N	2.5	9.7	22.2	39.3	53.9	62.8	66.9	65.4	54.7	41.7	23.4	8.5	37.6
<b>NORTHEAST</b>	3.4	11.0	23.5	40.3	54.7	63.4	67.5	65.9	55.3	42.6	24.0	9.2	38.4
Beulah 1 W	11.0	18.9	30.0	43.7	56.1	64.5	69.8	69.3	57.8	45.8	28.2	15.8	42.6
Center 4 SE	10.5	17.0	27.7	41.1	54.0	63.0	68.3	67.0	56.1	44.3	27.1	15.4	41.0
Dickinson Ranch HQ	11.8	19.0	29.0	42.1	54.4	63.7	69.4	68.6	57.0	44.7	27.7	16.1	42.0
Garrison 1 NNW	7.5	14.8	26.6	41.5	54.6	63.2	68.2	67.4	56.2	43.4	26.5	13.6	40.3
Keene 3 S	10.8	18.6	29.6	43.5	55.5	64.1	69.4	69.2	57.9	45.6	27.6	15.4	42.3
Max	7.2	14.5	25.7	40.6	54.3	63.2	68.3	66.6	55.1	42.5	25.3	12.3	39.6
Turtle Lake	7.4	14.7	26.9	41.4	54.7	63.5	68.8	67.7	56.7	44.0	25.9	12.8	40.4
Watford City	8.2	17.0	27.6	41.3	53.9	63.0	68.6	67.5	55.2	43.1	26.1	14.0	40.5
<b>WEST CENTRAL</b>	9.8	17.3	28.2	42.1	54.7	63.6	68.9	67.8	56.4	43.9	26.9	14.6	41.2
Carrington	7.0	13.9	25.3	40.7	55.0	63.8	68.6	66.8	55.9	43.5	25.5	12.1	39.8
Harvey	9.3	17.1	28.7	44.4	58.0	66.0	70.8	69.7	59.3	46.7	27.7	14.8	42.7
Jamestown Municipal AP	8.7	15.9	27.9	42.9	56.7	65.4	70.7	69.0	57.9	45.2	27.1	13.8	41.8
McClusky	9.2	16.5	28.1	43.3	56.9	65.6	70.6	69.5	58.5	45.5	27.2	14.0	42.1
Steele 3 N	7.7	15.0	27.1	42.5	55.8	64.5	69.9	68.5	57.6	44.6	26.3	12.9	41.0
Streeter 7 NW	7.5	13.9	25.8	40.6	53.6	62.5	68.2	66.7	55.7	43.3	26.1	12.5	39.7
<b>CENTRAL</b>	7.0	14.4	26.4	41.6	55.3	64.1	69.0	67.3	56.5	43.8	25.6	12.3	40.3
Casselton Agronomy Frm	5.7	12.7	26.2	42.2	56.5	65.2	70.2	68.5	58.3	45.2	26.7	12.4	40.8
Colgate	3.6	10.8	24.1	41.3	55.9	64.4	69.1	68.0	57.0	43.3	24.1	9.7	39.3
Cooperstown	5.0	12.8	25.5	41.5	55.6	64.3	68.9	67.2	56.7	43.9	24.9	10.8	39.8
Fargo Hector AP	6.8	14.1	27.2	43.5	57.4	66.0	70.6	69.0	58.0	45.3	27.0	12.5	41.5
Hillsboro 3 N	5.7	12.8	25.5	42.3	56.9	65.4	70.1	68.5	57.4	44.6	26.3	12.2	40.6
Sharon	4.7	12.4	25.0	41.5	55.6	63.7	68.1	66.9	56.6	43.8	24.7	10.2	39.4
Valley City 3 NNW	5.7	12.9	25.5	41.0	55.1	63.8	68.5	66.6	56.1	43.7	26.0	11.9	39.7
<b>EAST CENTRAL</b>	5.5	13.1	25.8	41.9	56.0	64.6	69.2	67.5	56.8	44.1	25.6	11.4	40.1
Amidon	15.5	22.5	31.7	43.9	55.5	64.7	70.9	70.1	58.4	45.9	30.0	19.3	44.0
Beach	15.2	22.0	31.5	43.5	54.9	64.1	69.8	69.0	58.1	45.1	29.4	19.1	43.5
Bowman	14.6	20.9	29.9	41.9	53.6	63.1	69.4	68.3	56.6	44.2	28.5	18.1	42.4
Dickinson Exp Station	12.0	18.9	28.7	41.3	53.4	62.4	68.1	67.3	55.4	43.3	27.3	16.2	41.2
Fairfield	10.3	17.4	27.6	41.2	53.3	62.3	68.2	67.2	56.1	43.4	26.4	14.8	40.7
Mott	12.1	19.4	28.9	41.5	54.2	63.5	69.4	67.9	56.4	43.9	27.6	16.4	41.8
New England	14.2	21.2	30.4	42.8	54.9	64.0	69.5	68.5	57.1	44.9	28.5	18.0	42.8
Richardson Abbey	13.5	20.4	30.3	43.4	55.7	64.3	70.0	68.9	57.9	45.6	28.8	17.4	43.0
Trotters 3 SSE	13.5	20.7	30.7	43.3	54.7	63.5	69.3	68.5	56.9	44.8	28.2	17.2	42.6
<b>SOUTHWEST</b>	13.6	20.7	30.1	42.3	54.0	63.2	69.0	67.9	56.4	44.2	28.2	17.4	42.3
Almont	11.4	19.2	29.8	43.8	56.4	64.8	70.0	68.9	58.1	45.4	28.1	15.7	42.6
Bismarck Municipal AP	10.2	18.1	29.7	43.3	56.0	64.7	70.4	69.0	57.7	45.2	28.0	15.2	42.3
Breien	11.0	18.8	30.3	44.2	56.5	65.3	70.7	69.6	58.5	45.4	28.3	15.8	42.9
Fort Yates 4 SW	13.4	20.6	30.7	44.6	57.4	66.7	72.5	71.1	60.0	47.6	30.1	17.9	44.4
Heart Butte Dam	11.2	18.4	28.5	42.4	55.1	64.4	70.0	68.7	57.5	45.0	28.2	16.4	42.2
Mandan Exp Station	10.0	17.2	28.5	42.7	55.7	64.6	70.2	68.7	57.3	44.7	27.9	15.1	41.9
New Salem 5 NW	8.8	15.9	27.3	41.6	54.8	63.5	69.1	67.8	57.2	43.7	26.0	13.4	40.8
Pretty Rock	13.5	20.6	30.0	43.0	55.3	64.4	70.3	69.3	58.2	45.7	28.8	17.8	43.1
<b>SOUTH CENTRAL</b>	10.5	17.9	28.8	42.5	55.3	64.3	69.9	68.4	57.2	44.6	27.4	15.3	41.8
Ashley	9.6	16.8	28.5	43.4	56.5	65.5	71.2	69.3	58.3	45.2	27.4	14.6	42.2
Forman 5 SSE	7.8	15.1	27.7	43.5	57.0	65.8	71.0	69.3	58.3	45.4	27.9	13.9	41.9
Fullerton 1 ESE	9.6	17.0	29.1	44.4	57.5	66.0	71.2	69.4	59.1	46.2	27.9	14.5	42.7
Gackle	8.9	15.9	27.4	43.0	56.5	65.4	70.7	69.2	58.4	45.6	27.1	13.8	41.8
LaMoure	7.1	14.6	27.1	42.4	55.8	64.8	69.9	67.6	56.8	44.1	26.6	13.2	40.8
Lisbon	6.9	13.8	26.4	42.1	55.9	65.3	70.5	68.6	57.1	44.4	27.1	13.3	41.0
Napoleon	8.3	15.1	27.0	41.9	54.8	63.9	69.5	68.2	57.0	44.3	26.7	13.5	40.9
Wahpeton 3 N	8.7	16.0	28.8	45.3	59.3	67.8	72.2	70.3	60.0	47.3	28.9	14.6	43.3
<b>SOUTHEAST</b>	8.4	15.7	27.9	43.0	56.1	65.1	70.3	68.3	57.5	44.8	27.2	13.9	41.5
<b>STATE</b>	7.8	15.3	26.8	41.7	54.9	63.8	68.7	67.3	56.2	43.7	26.1	13.0	40.4